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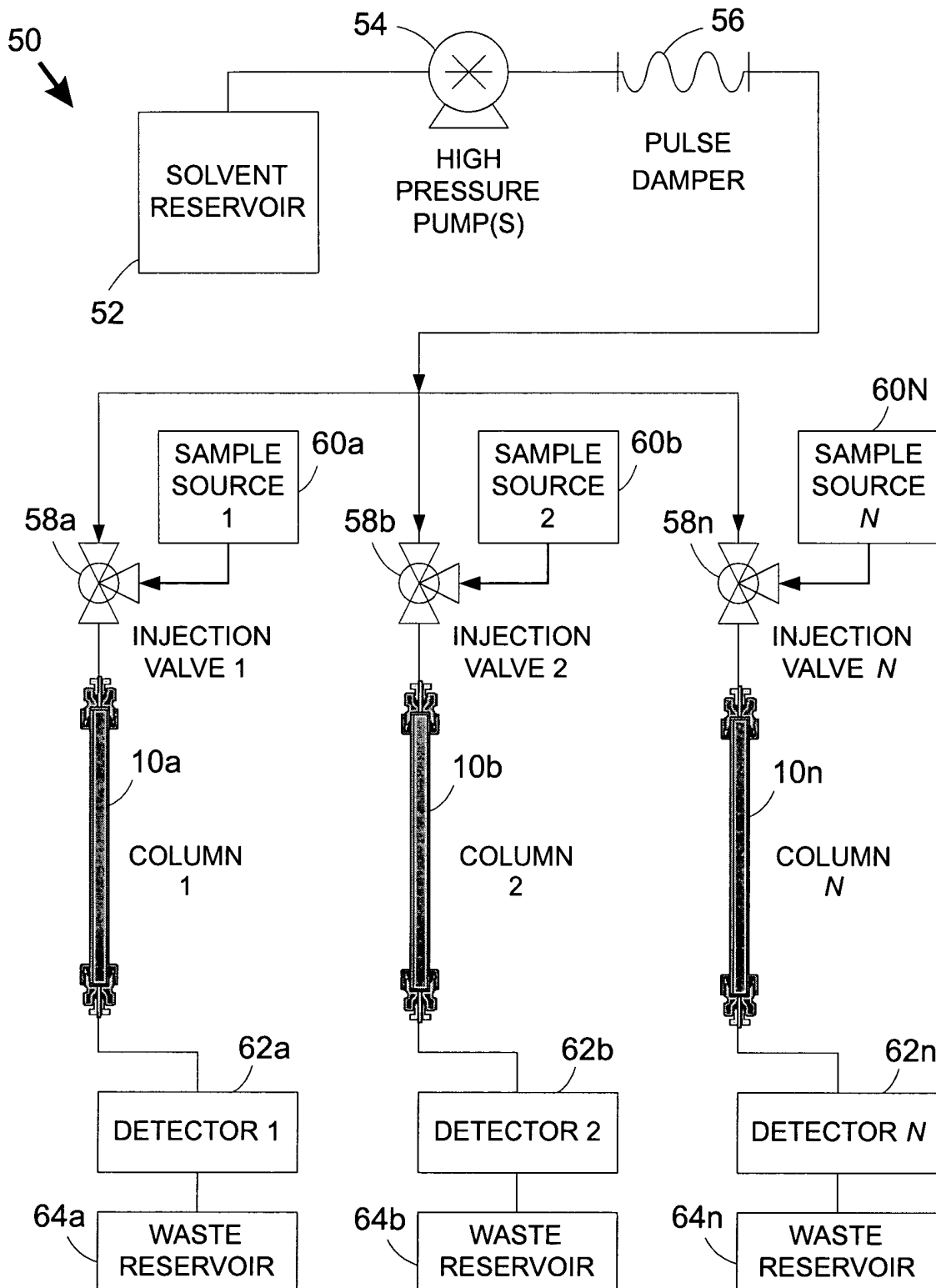


FIG. _3 (PRIOR ART)

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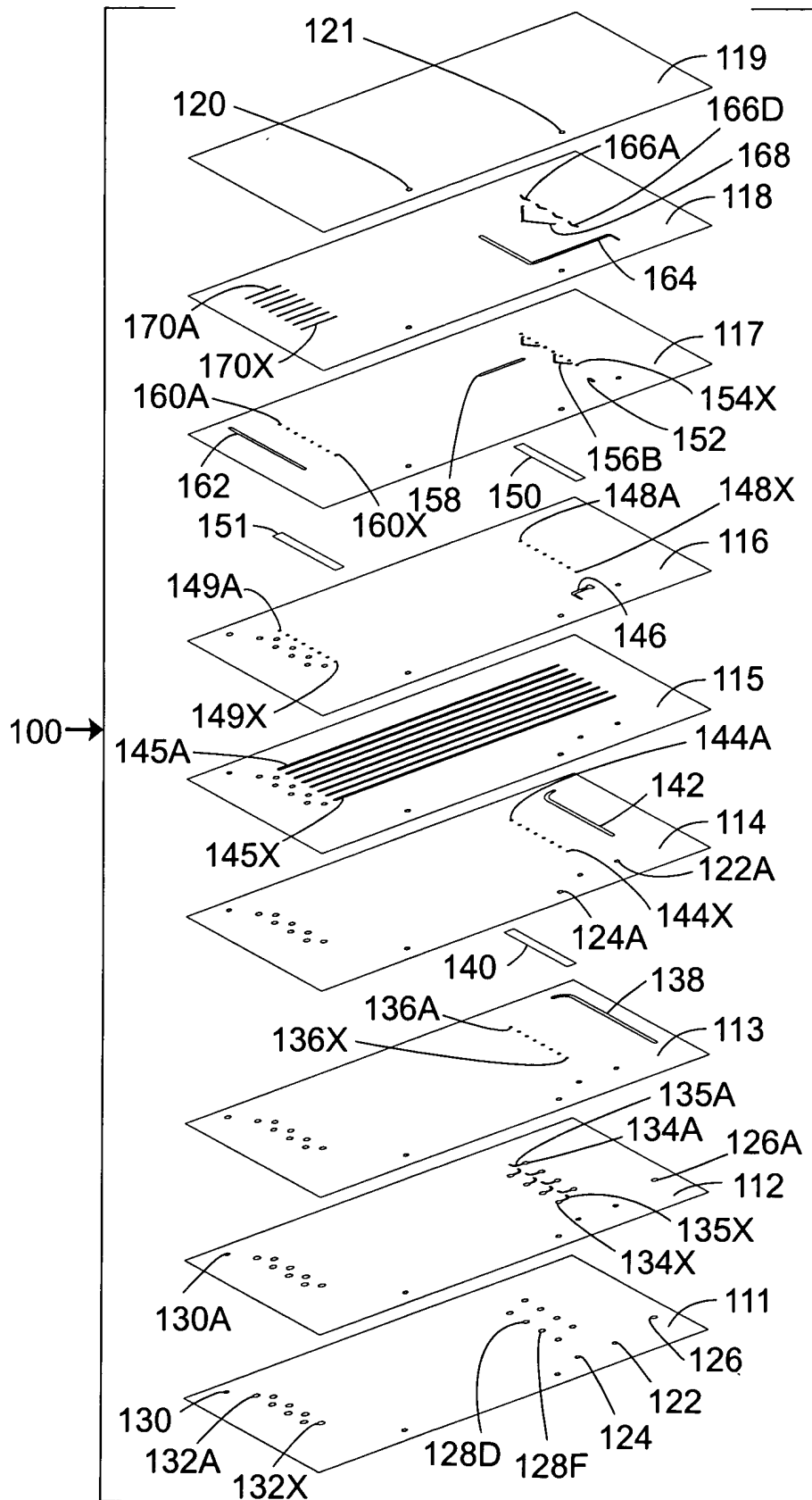


FIG. 4A

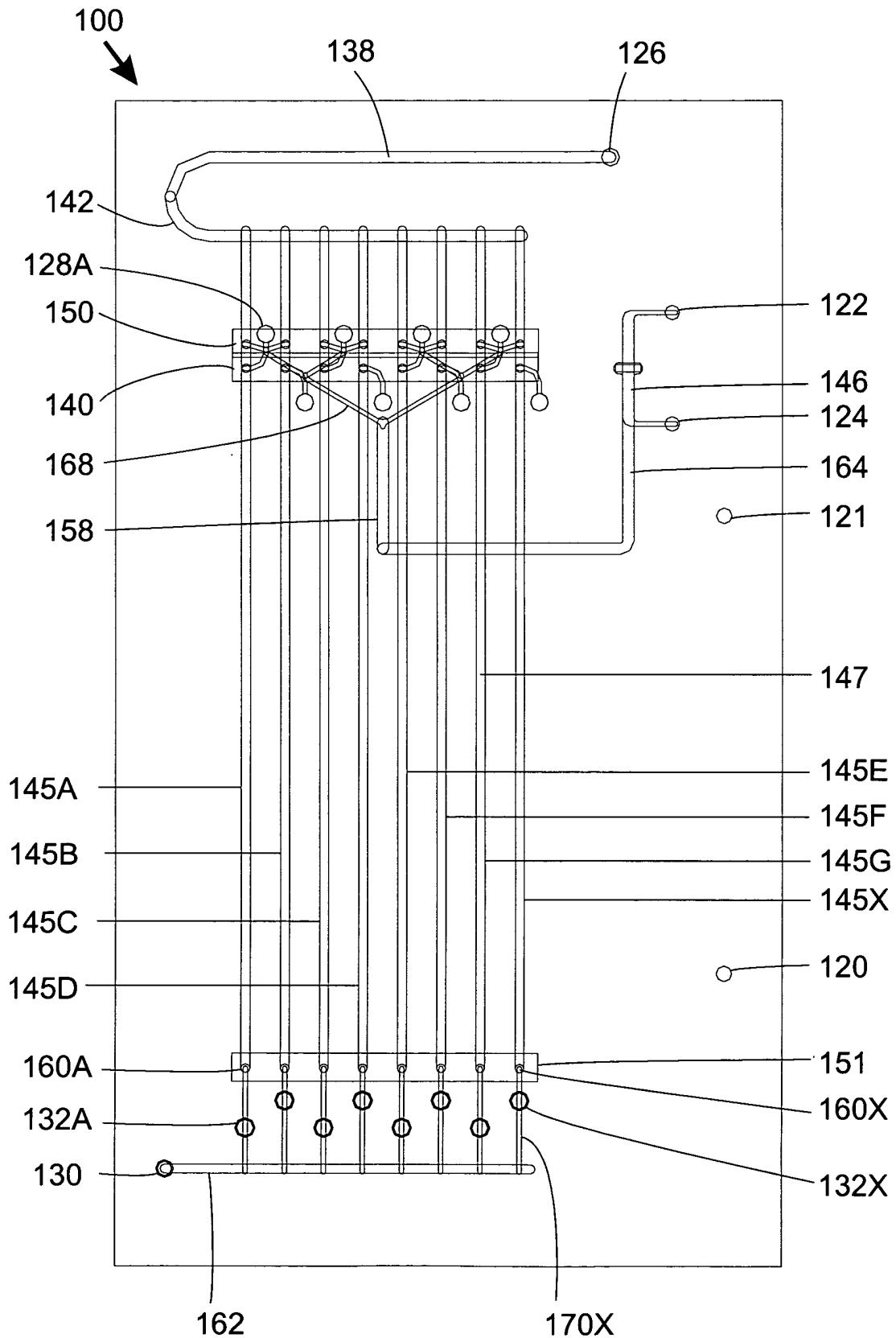


FIG. 4B

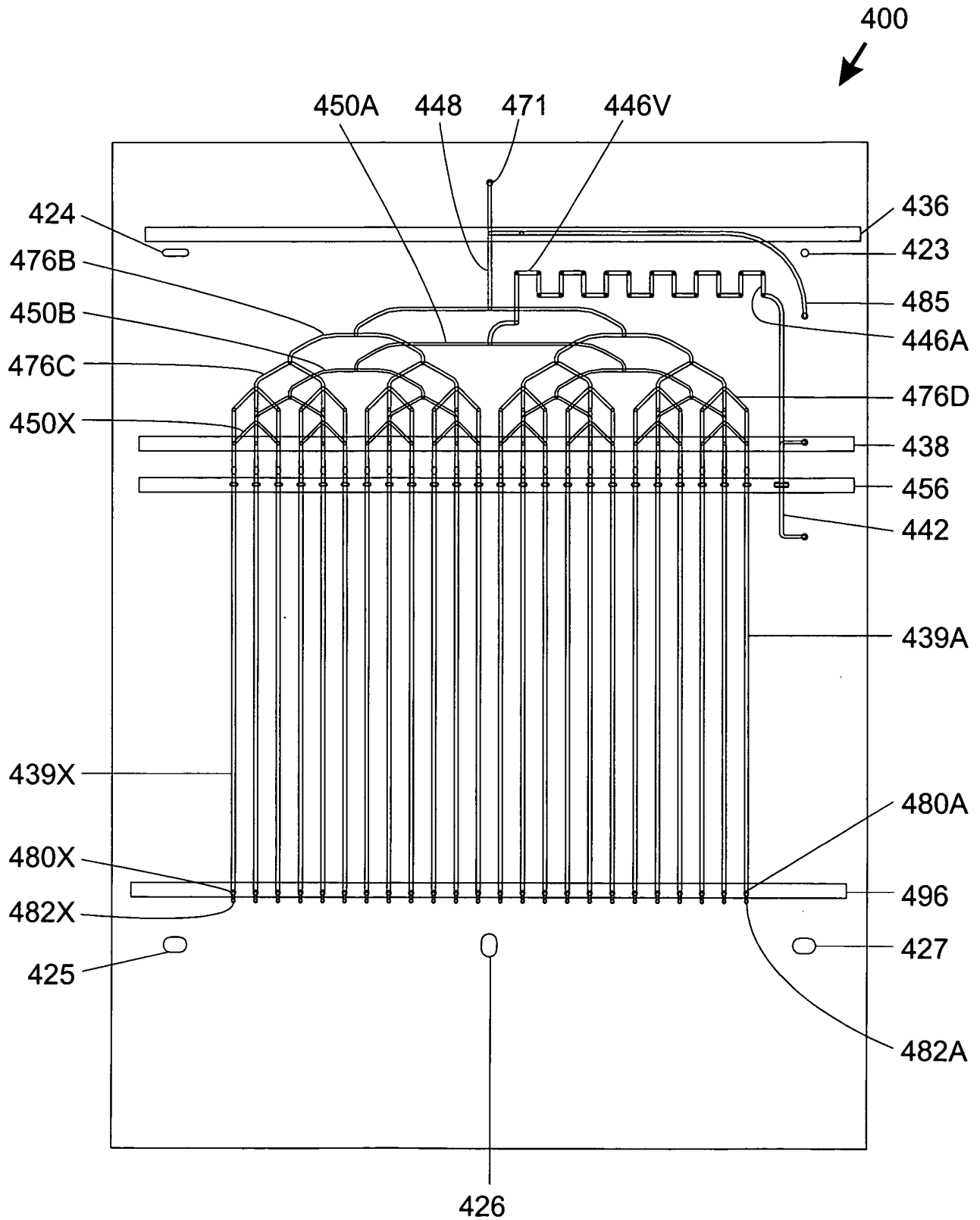


FIG. 5

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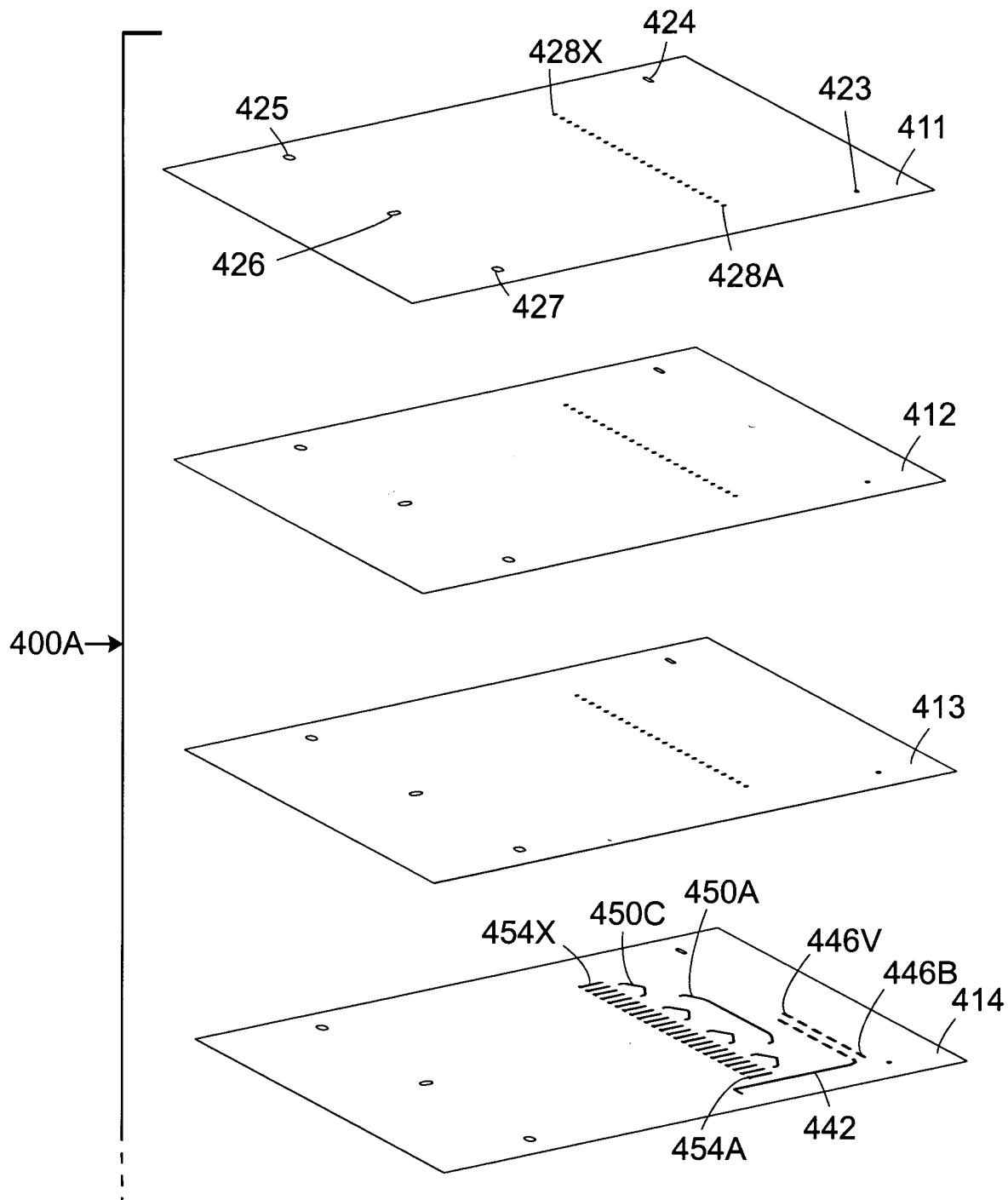


FIG. 6A

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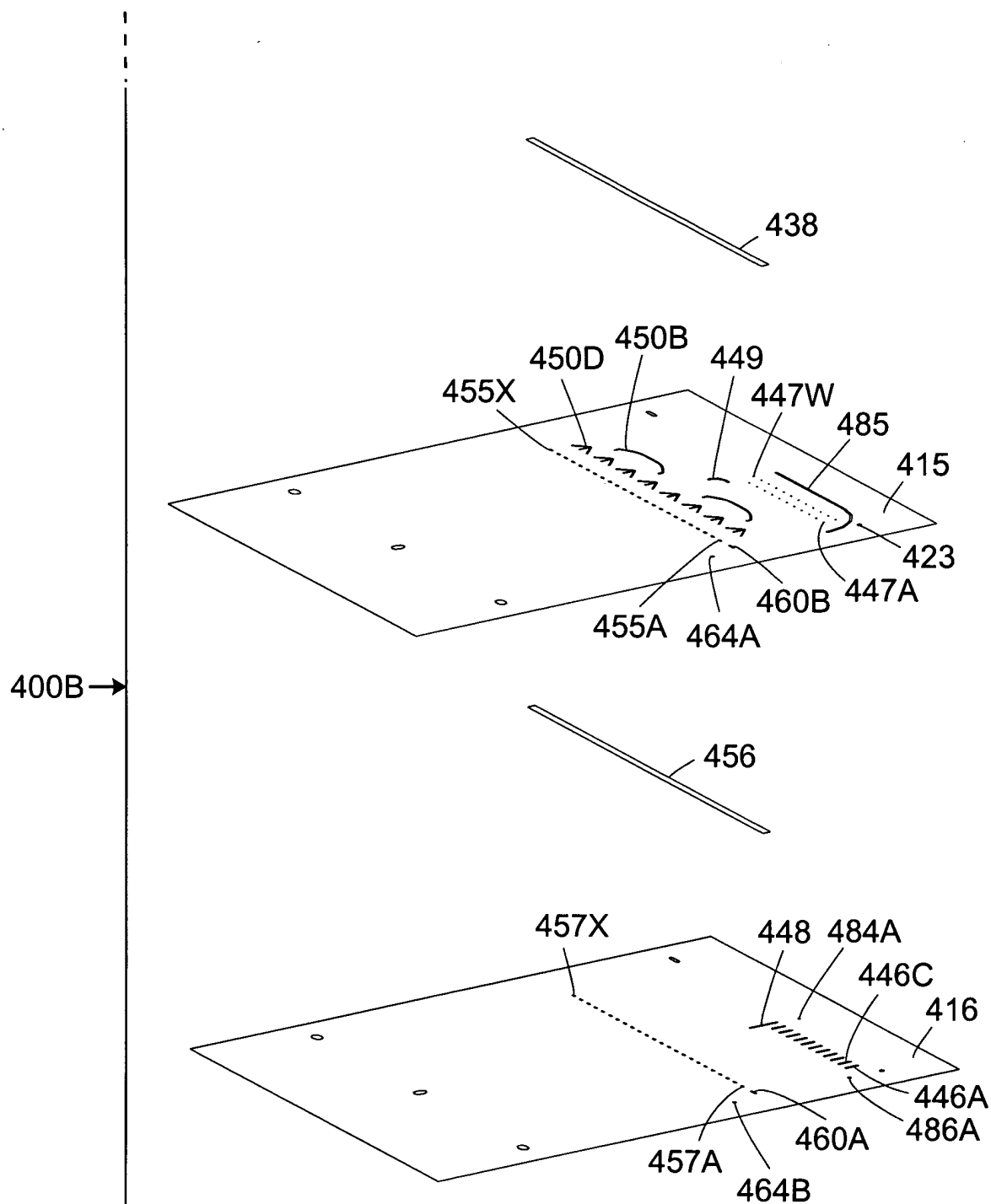


FIG. 6B

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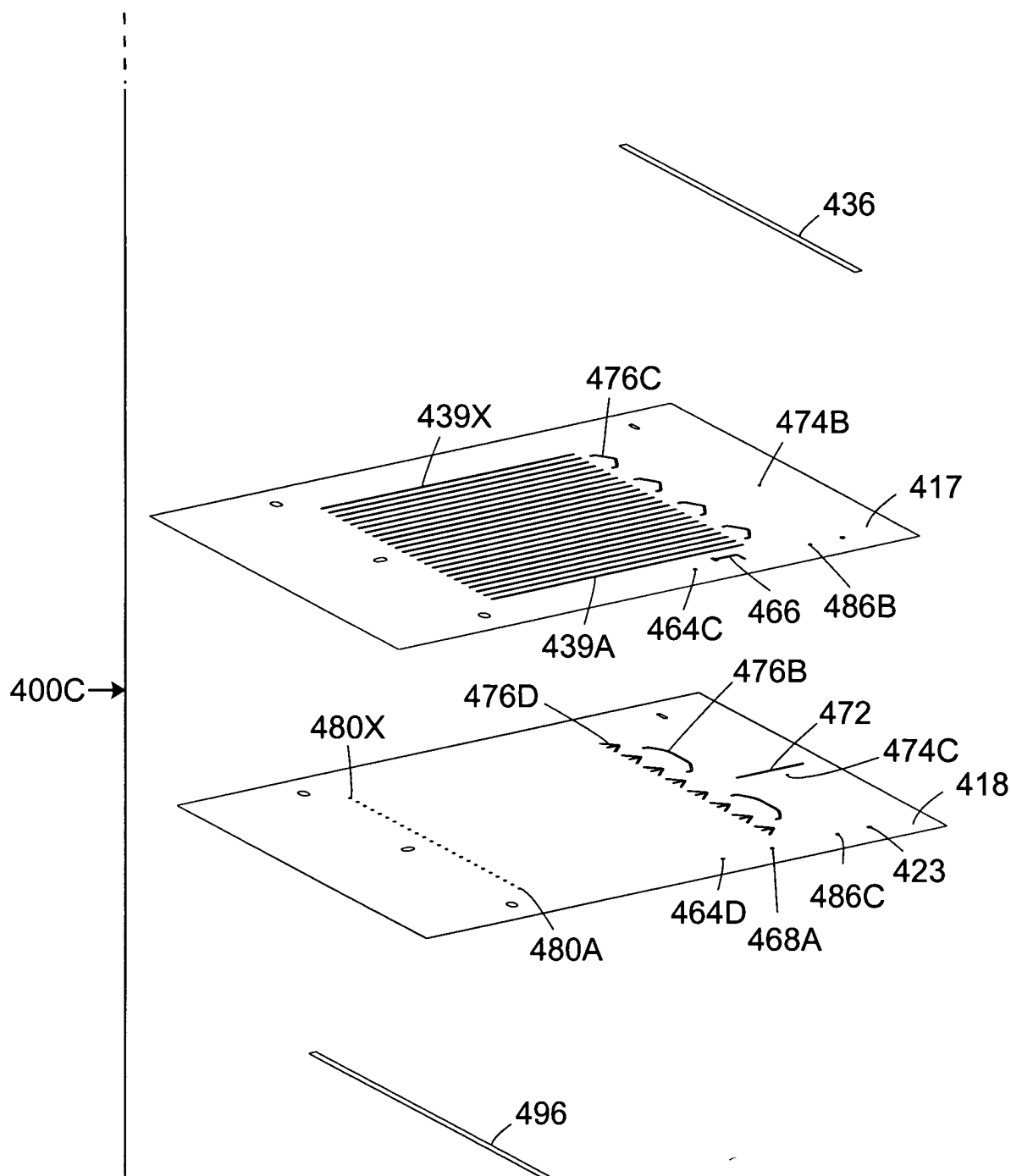


FIG. 6C

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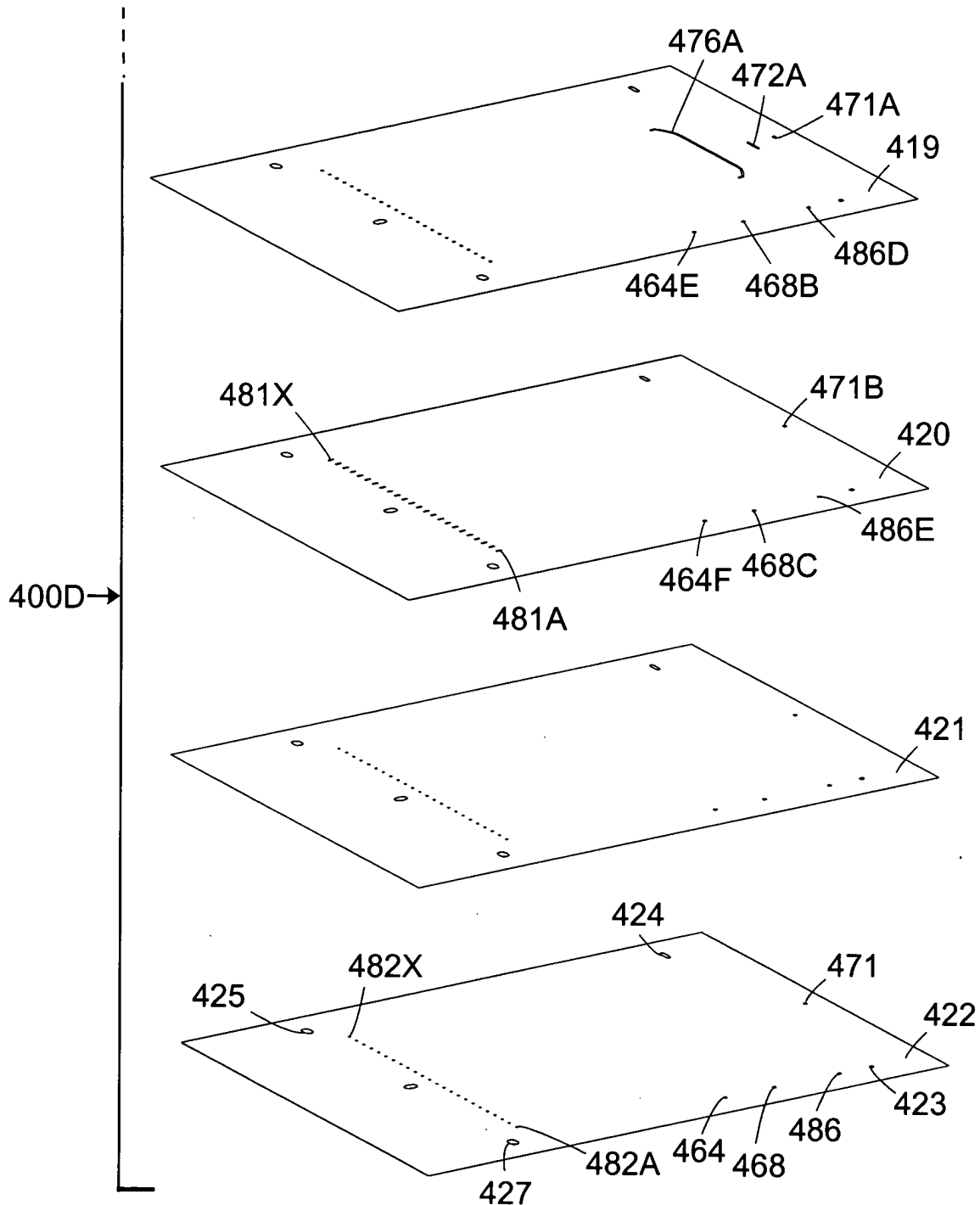


FIG. 6D

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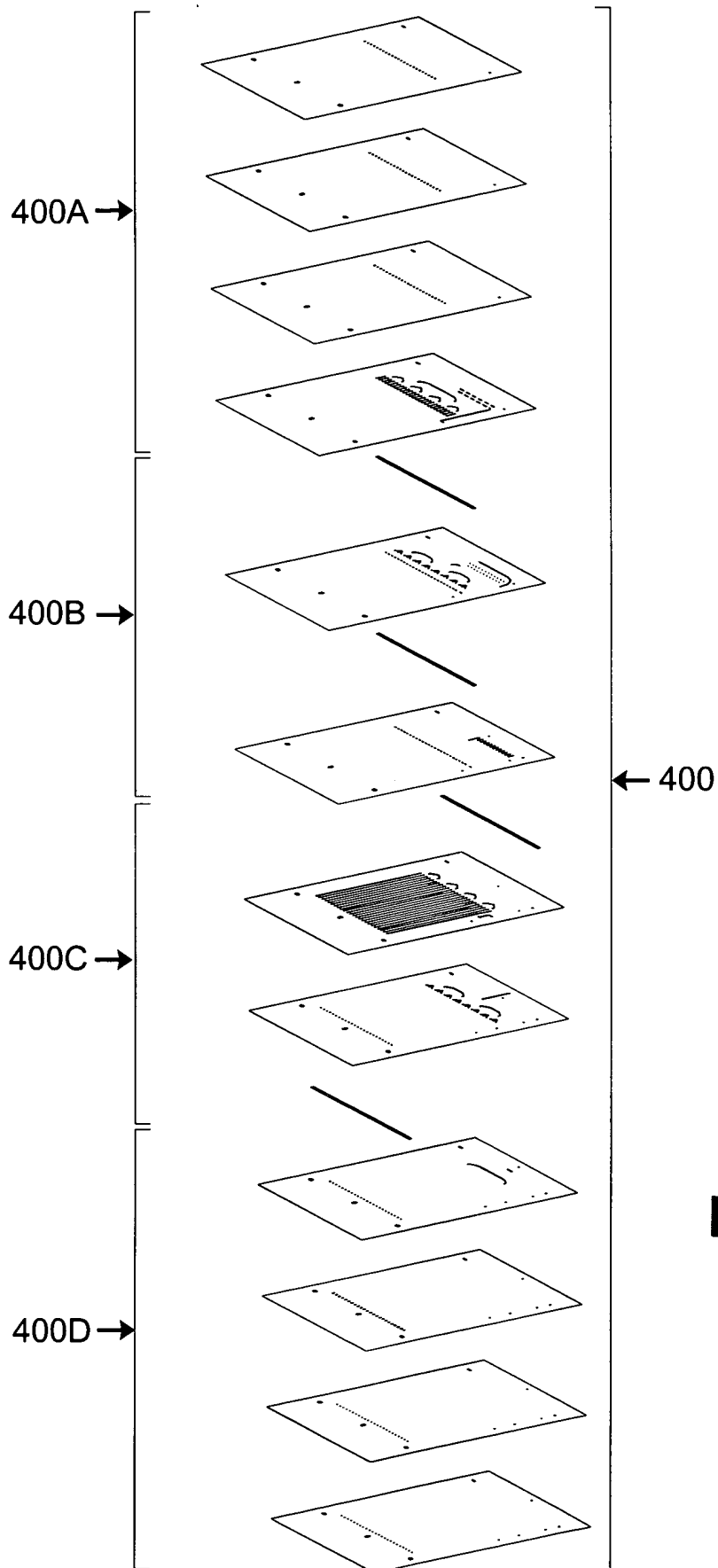


FIG._6E

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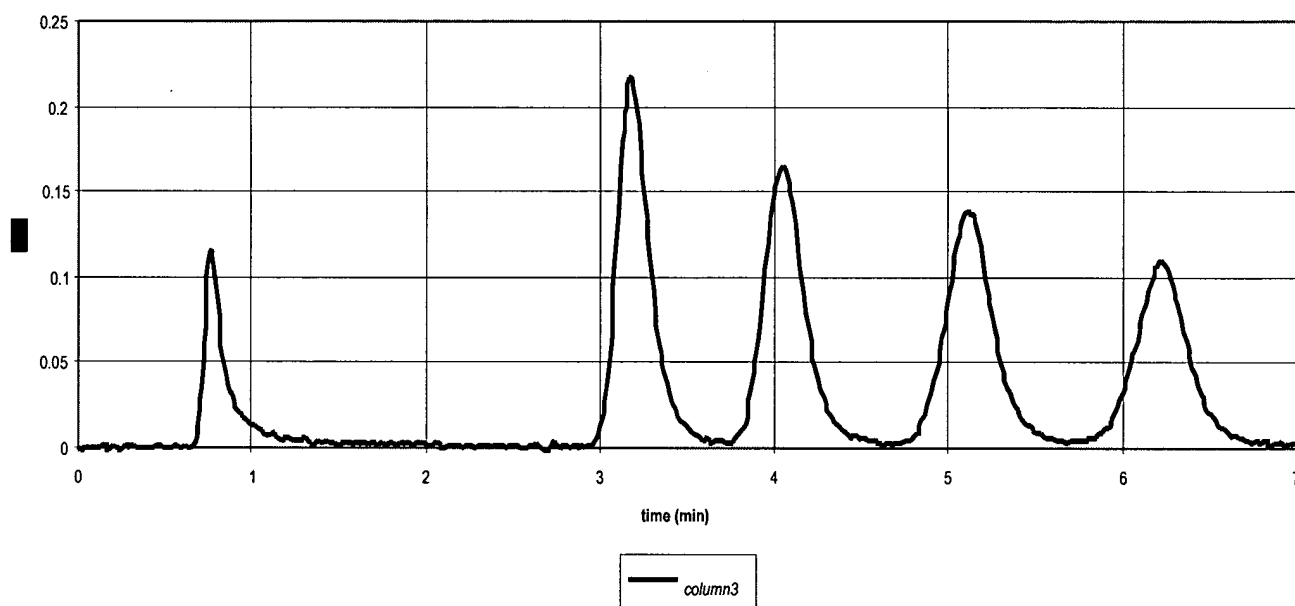


FIG._7

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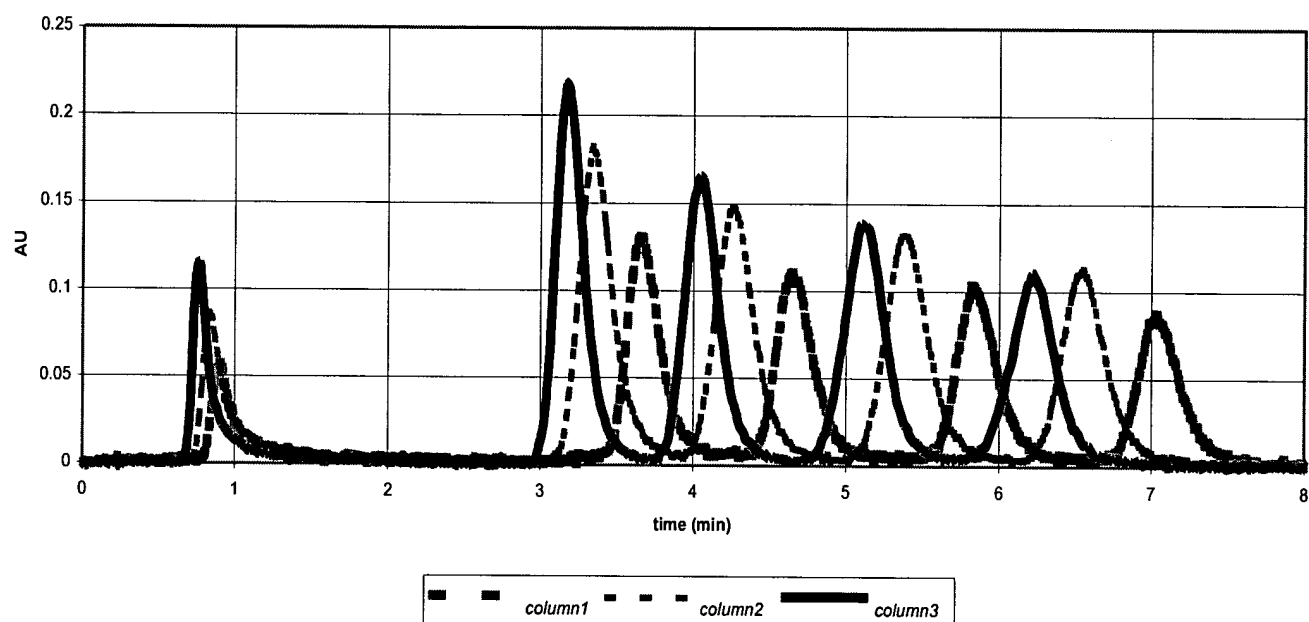


FIG._8

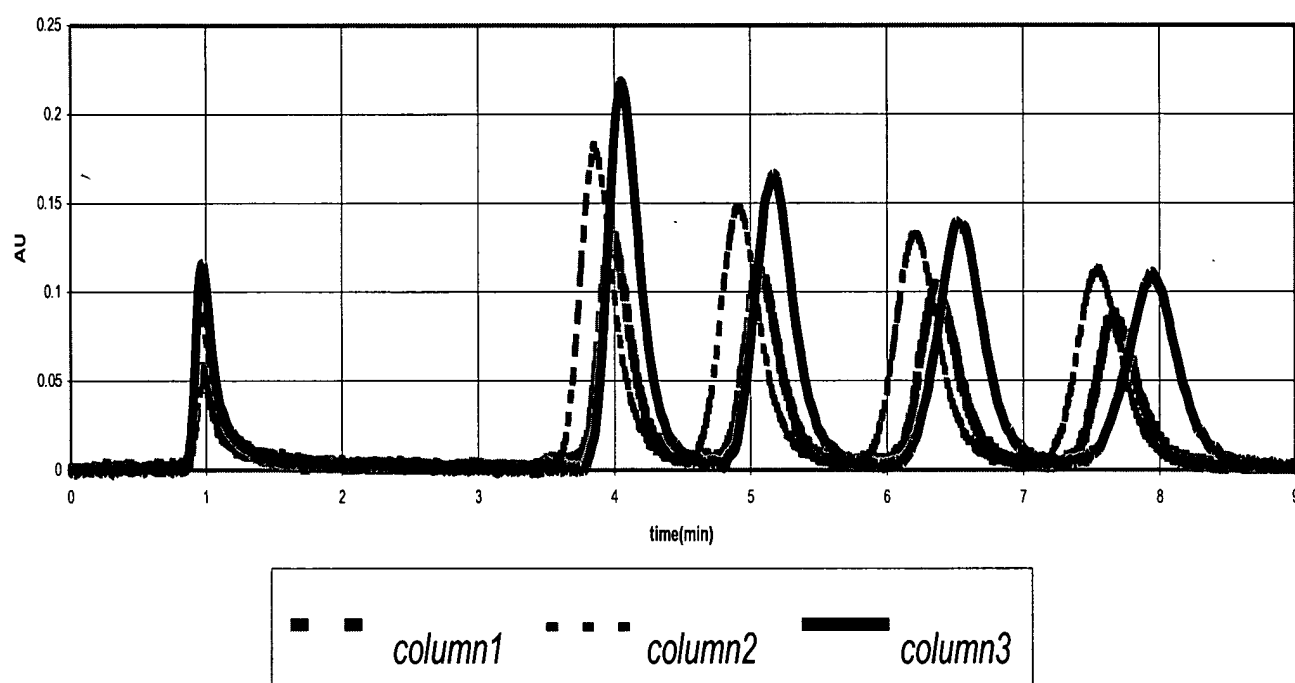


FIG. 9

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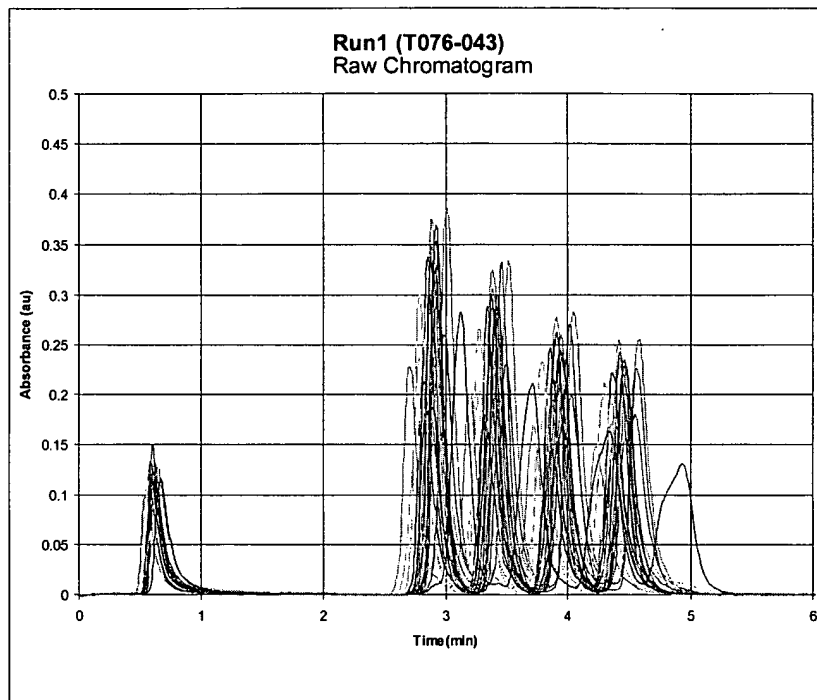


FIG._10

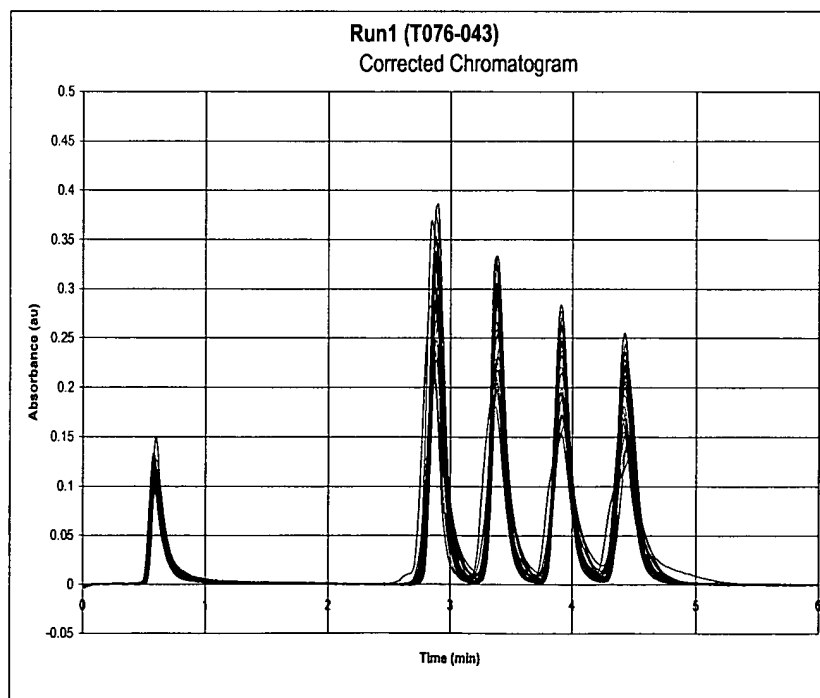


FIG._11

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RAW Run1 (reference run)

Column #	Pk1	Pk2	Pk3	Pk4	Pk5
1	0.633	3	3.5	4.033	4.55
2	0.567	2.783	3.283	3.8	4.317
3	0.55	2.7	3.2	3.717	4.233
4	0.583	2.85	3.367	3.883	4.4
5	0.6	2.833	3.333	3.867	4.383
6	0.633	2.933	3.433	3.967	4.483
7	0.6	2.85	3.35	3.867	4.367
8	0.6	2.867	3.383	3.883	4.367
9	0.583	2.833	3.333	3.85	4.367
10	0.6	2.883	3.383	3.917	4.417
11	0.567	2.783	3.283	3.8	4.3
12	0.633	2.95	3.45	3.967	4.483
13	0.65	3.017	3.517	4.05	4.583
14	0.617	2.9	3.383	3.917	4.417
15	0.583	2.783	3.283	3.8	4.3
16	0.633	2.917	3.417	3.95	4.467
17	0.617	2.9	3.383	3.917	4.433
18	0.617	2.917	3.417	3.95	4.467
19	0.633	2.933	3.433	3.967	4.483
20	0.617	2.883	3.383	3.917	4.433
21	0.6	2.883	3.383	3.933	4.45
22	0.617	2.917	3.467	4.033	4.567
23	0.633	2.933	3.433	3.95	4.467
24	0.683	3.117	3.7	4.333	4.917
AVG Peak	0.610	2.890	3.396	3.928	4.444

COEFFICIENTS

(a+bx)

1	-0.019	0.977
2	0.034	1.024
3	0.049	1.043
4	0.024	1.004
5	0.007	1.014
6	-0.022	0.996
7	-0.003	1.017
8	-0.008	1.014
9	0.019	1.014
10	0.005	1.003
11	0.029	1.026
12	-0.028	0.995
13	-0.031	0.975
14	-0.017	1.008
15	0.012	1.031
16	-0.023	1.000
17	-0.013	1.005
18	-0.007	0.996
19	-0.022	0.996
20	-0.008	1.005
21	0.016	0.996
22	0.026	0.970
23	-0.029	1.000
24	0.016	0.907
AVG	0.000	1.001

FIG_12A

FIG_12B

CORRECTED Run1 (reference run)

Column #	Pk1	Pk2	Pk3	Pk4	Pk5
1	0.600	2.914	3.402	3.923	4.429
2	0.614	2.883	3.394	3.924	4.453
3	0.623	2.866	3.387	3.927	4.465
4	0.610	2.886	3.405	3.924	4.443
5	0.616	2.881	3.388	3.930	4.453
6	0.608	2.897	3.395	3.927	4.441
7	0.607	2.894	3.402	3.928	4.436
8	0.600	2.898	3.422	3.928	4.419
9	0.610	2.891	3.398	3.922	4.446
10	0.607	2.896	3.398	3.933	4.434
11	0.611	2.886	3.399	3.930	4.443
12	0.602	2.908	3.405	3.920	4.433
13	0.603	2.911	3.398	3.918	4.438
14	0.605	2.906	3.392	3.931	4.435
15	0.613	2.882	3.397	3.930	4.446
16	0.610	2.894	3.394	3.927	4.444
17	0.608	2.903	3.388	3.925	4.444
18	0.608	2.898	3.395	3.926	4.441
19	0.608	2.897	3.395	3.927	4.441
20	0.612	2.889	3.392	3.928	4.447
21	0.614	2.887	3.385	3.933	4.448
22	0.624	2.856	3.390	3.939	4.458
23	0.604	2.903	3.403	3.920	4.437
24	0.636	2.842	3.371	3.945	4.474
AVG Peak	0.610	2.890	3.396	3.928	4.444

FIG_12C

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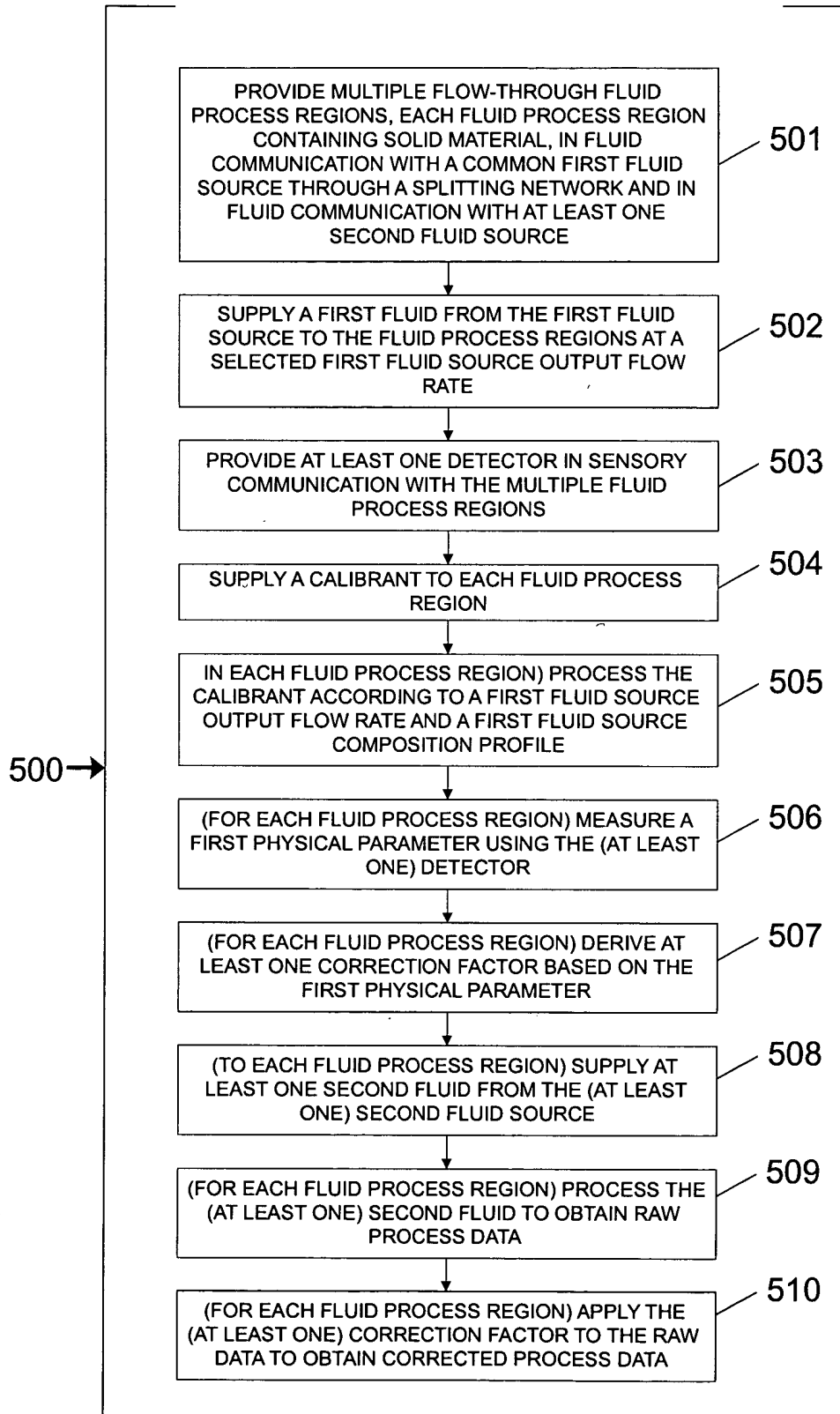
Column #	Pk1	Pk2	Pk3	Pk4	Pk5
1	0.633	3	3.517	4.05	4.567
2	0.567	2.783	3.283	3.8	4.317
3	0.55	2.717	3.217	3.733	4.25
4	0.6	2.867	3.367	3.883	4.4
5	0.6	2.8	3.317	3.833	4.367
6	0.633	2.95	3.45	3.967	4.483
7	0.6	2.867	3.367	3.883	4.383
8	0.6	2.8	3.283	3.817	4.317
9	0.6	2.85	3.35	3.867	4.367
10	0.617	2.9	3.4	3.933	4.433
11	0.6	2.8	3.283	3.8	4.317
12	0.65	2.95	3.45	3.983	4.483
13	0.667	3.017	3.517	4.05	4.583
14	0.633	2.9	3.4	3.917	4.433
15	0.6	2.8	3.283	3.8	4.317
16	0.633	2.933	3.433	3.95	4.467
17	0.633	2.9	3.4	3.933	4.433
18	0.633	2.933	3.433	3.95	4.467
19	0.65	2.95	3.45	3.983	4.5
20	0.633	2.883	3.383	3.917	4.433
21	0.6	2.867	3.383	3.917	4.45
22	0.617	2.917	3.467	4.033	4.583
23	0.633	2.933	3.433	3.967	4.483
24	0.683	3.117	3.717	4.333	4.933
AVG	0.619	2.893	3.399	3.929	4.449

FIG_12D

Column#	Pk1	Pk2	Pk3	Pk4	Pk5
1	0.600	2.914	3.419	3.940	4.445
2	0.614	2.883	3.394	3.924	4.453
3	0.623	2.884	3.405	3.943	4.483
4	0.627	2.903	3.405	3.924	4.443
5	0.616	2.847	3.372	3.895	4.437
6	0.608	2.914	3.412	3.927	4.441
7	0.607	2.911	3.420	3.944	4.453
8	0.600	2.831	3.320	3.862	4.368
9	0.627	2.908	3.415	3.939	4.446
10	0.624	2.913	3.415	3.949	4.450
11	0.645	2.903	3.399	3.930	4.460
12	0.619	2.908	3.405	3.936	4.433
13	0.619	2.911	3.398	3.918	4.438
14	0.621	2.906	3.410	3.931	4.451
15	0.631	2.899	3.397	3.930	4.463
16	0.610	2.910	3.410	3.927	4.444
17	0.624	2.903	3.405	3.941	4.444
18	0.624	2.914	3.411	3.926	4.441
19	0.625	2.914	3.412	3.943	4.458
20	0.628	2.889	3.392	3.928	4.447
21	0.614	2.872	3.385	3.917	4.448
22	0.624	2.856	3.390	3.939	4.473
23	0.604	2.903	3.403	3.937	4.453
24	0.636	2.842	3.386	3.945	4.489
AVG Peak	0.620	2.893	3.399	3.929	4.448

FIG_12E

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FIG_13

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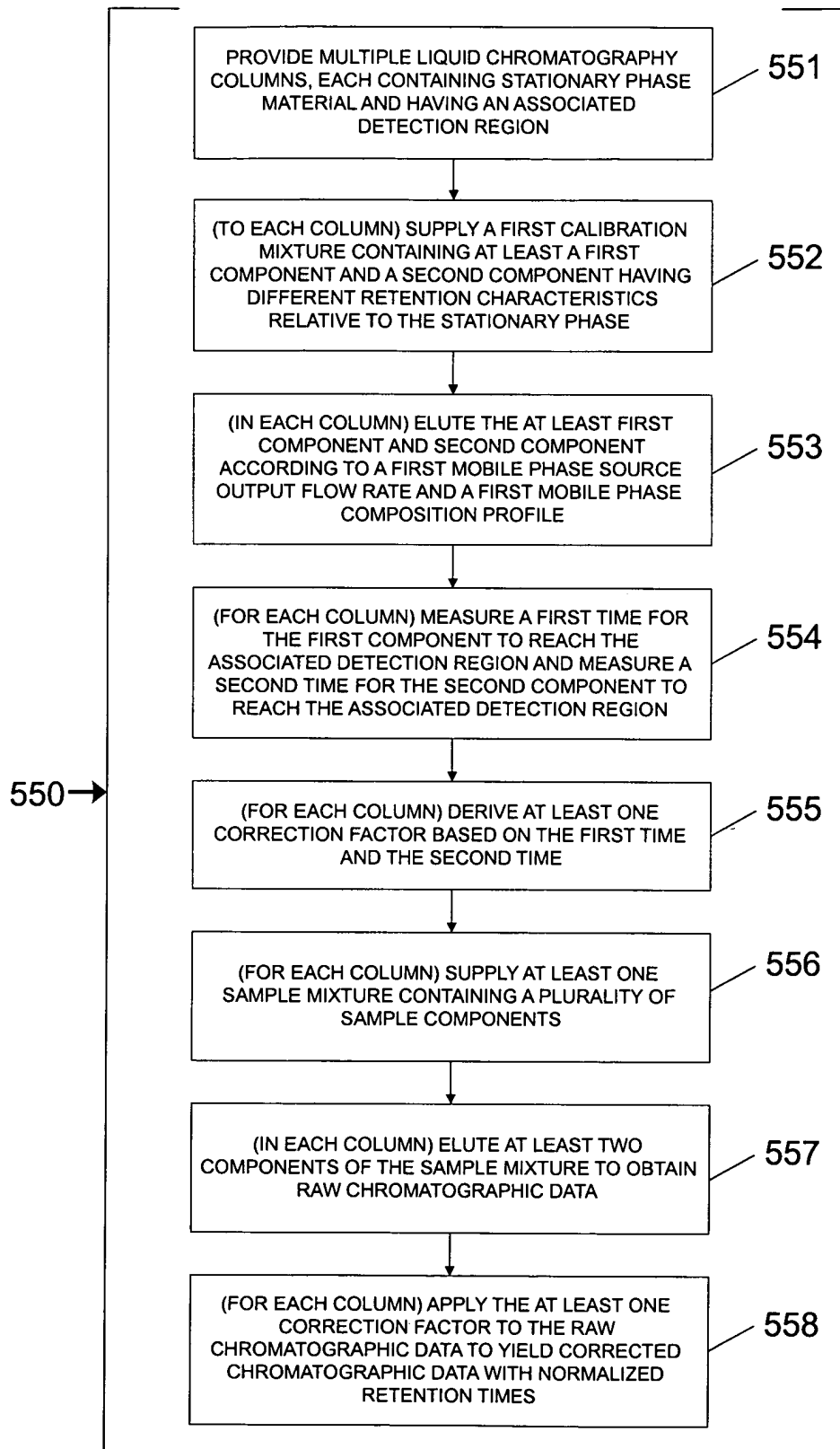


FIG. 14

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Run 1: Peak Area Data & Derivation of Correction Factors

Column Number	Peak 2 Area (Raw)	Peak 3 Area (Raw)	Peak 4 Area (Raw)	Peak 5 Area (Raw)	Average Area: Peaks 2-5 (single column)	Average Area: Peaks 2-5 (all columns)	Correction Factor
1	122.3	108.9	95.8	88.7	103.9	105.9	1.019
2	118.0	104.8	96.7	88.9	102.1	105.9	1.038
3	114.9	102.1	91.4	83.7	98.1	105.9	1.080
4	105.3	93.0	80.3	74.8	88.3	105.9	1.199
5	126.9	111.3	98.4	90.2	106.7	105.9	0.993
6	119.1	106.1	93.9	86.9	101.5	105.9	1.044
7	144.2	135.4	118.5	103.9	125.5	105.9	0.844
8	118.7	105.5	91.3	82.9	99.6	105.9	1.064
9	121.3	113.1	97.6	84.1	104.0	105.9	1.018
10	137.6	129.5	109.1	90.8	116.7	105.9	0.907
11	144.6	129.4	112.3	103.2	122.4	105.9	0.866
12	121.4	109.1	94.6	88.6	103.4	105.9	1.024
13	129.5	122.8	109.4	97.1	114.7	105.9	0.924
14	130.1	123.1	107.8	94.4	113.9	105.9	0.930
15	114.9	106.0	90.9	80.8	98.1	105.9	1.079
16	114.9	100.8	86.9	78.3	95.2	105.9	1.113
17	134.9	119.5	105.6	96.1	114.0	105.9	0.929
18	120.3	106.9	93.4	84.9	101.4	105.9	1.045
19	130.3	115.8	102.3	94.0	110.6	105.9	0.958
20	115.0	102.1	90.7	84.0	97.9	105.9	1.082
21	124.4	110.2	97.9	89.3	105.4	105.9	1.005
22	123.7	109.4	96.3	87.8	104.3	105.9	1.016
23	124.9	111.4	97.6	89.7	105.9	105.9	1.000
24	126.7	113.1	100.9	93.7	108.6	105.9	0.975

FIG_15A

Run 2: Peak 3 Area Correction

Column Number	Correction Factor	Peak 3 Area (Raw)	Peak 3 Area (Corrected)
1	1.019	116.0	118.3
2	1.038	106.5	110.5
3	1.080	106.7	115.3
4	1.199	95.4	114.4
5	0.993	118.9	118.0
6	1.044	101.8	106.2
7	0.844	135.5	114.3
8	1.064	104.9	111.5
9	1.018	113.2	115.2
10	0.907	131.5	119.3
11	0.866	130.6	113.0
12	1.024	110.3	112.9
13	0.924	122.3	112.9
14	0.930	118.2	110.0
15	1.079	113.3	122.4
16	1.113	100.7	112.1
17	0.929	117.4	109.0
18	1.045	107.3	112.2
19	0.958	112.7	108.0
20	1.082	105.1	113.6
21	1.005	112.1	112.6
22	1.016	108.8	110.5
23	1.000	110.0	110.1
24	0.975	115.8	113.0
%CV		8.7	3.3

FIG_15B

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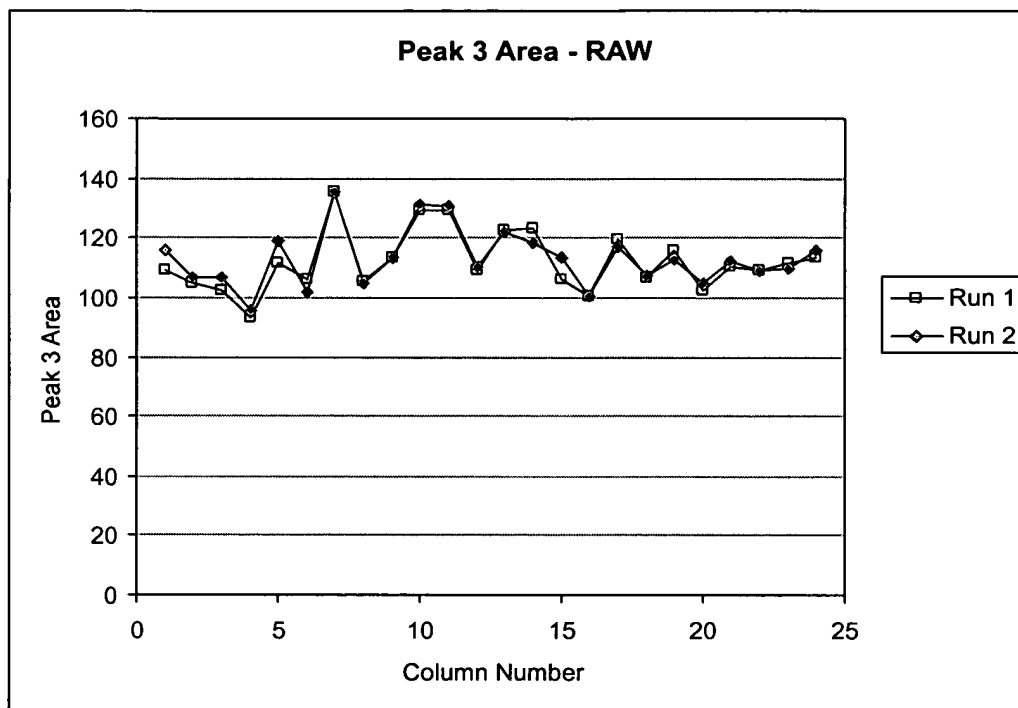


FIG. 16A

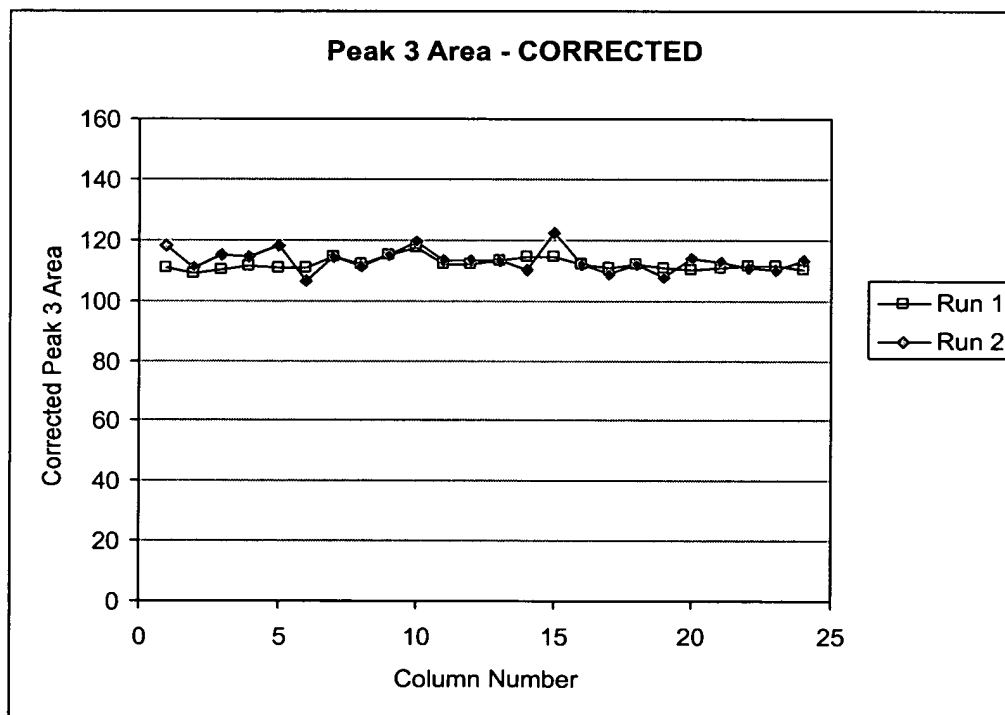


FIG. 16B

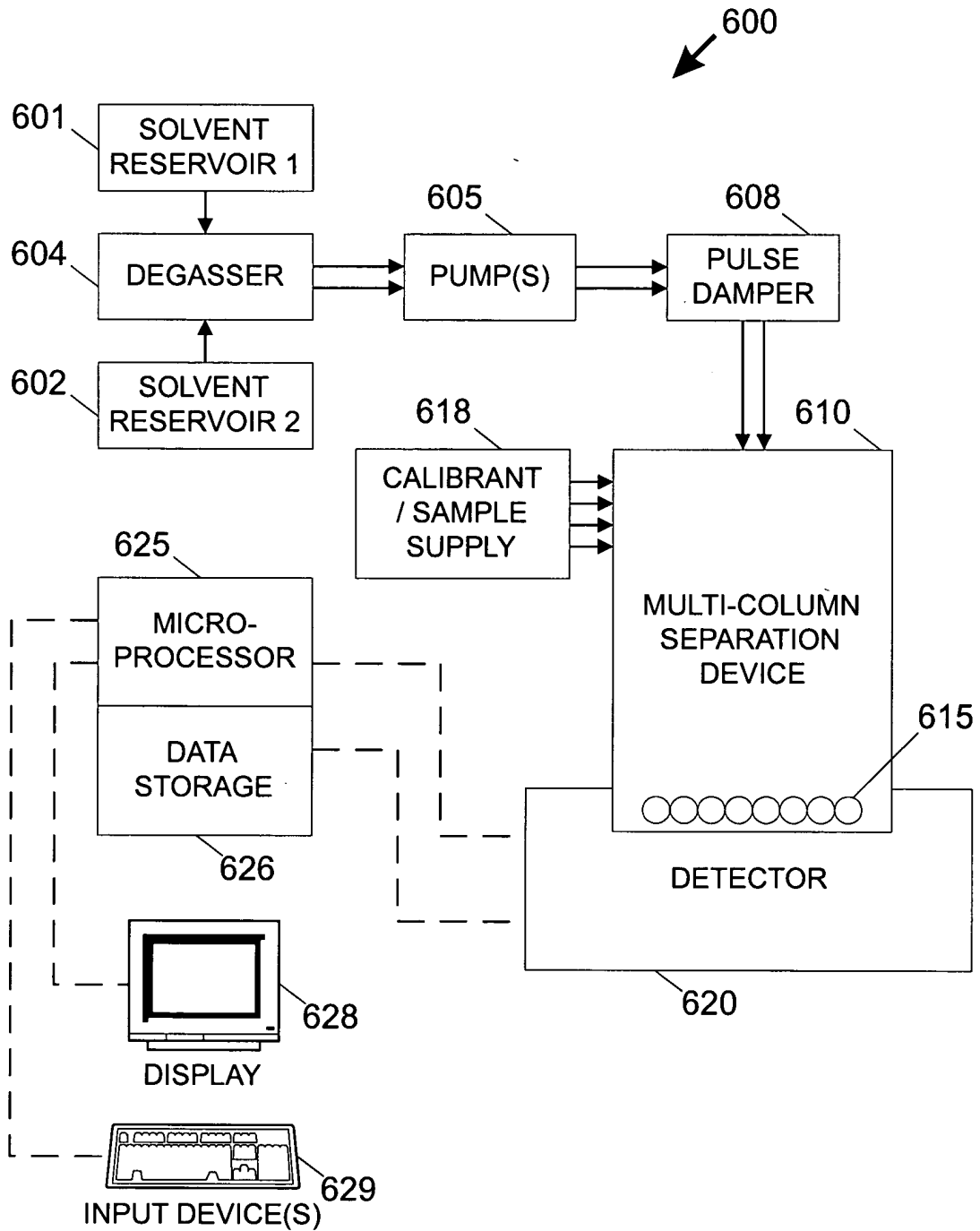


FIG. 17

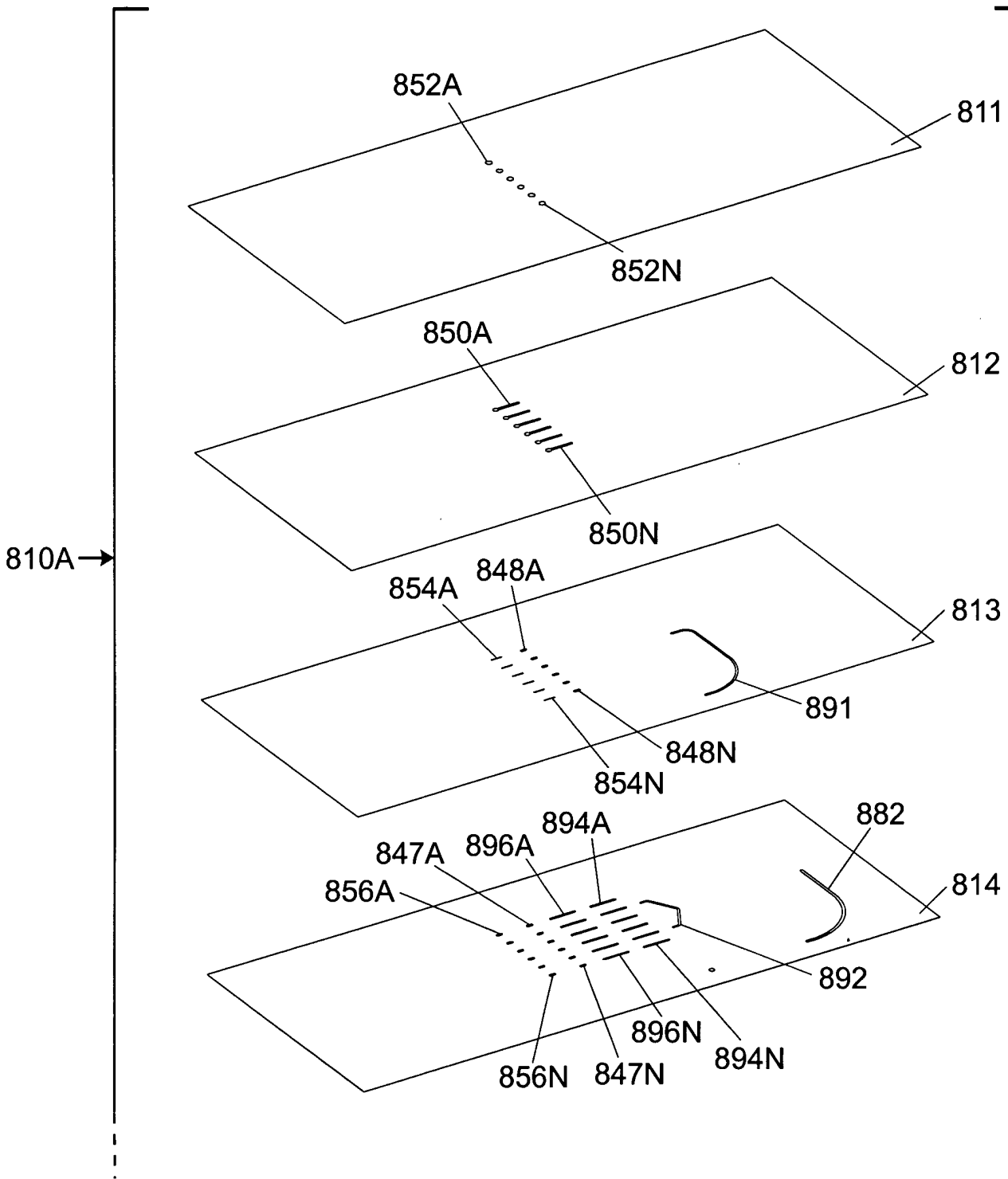


FIG. 18A

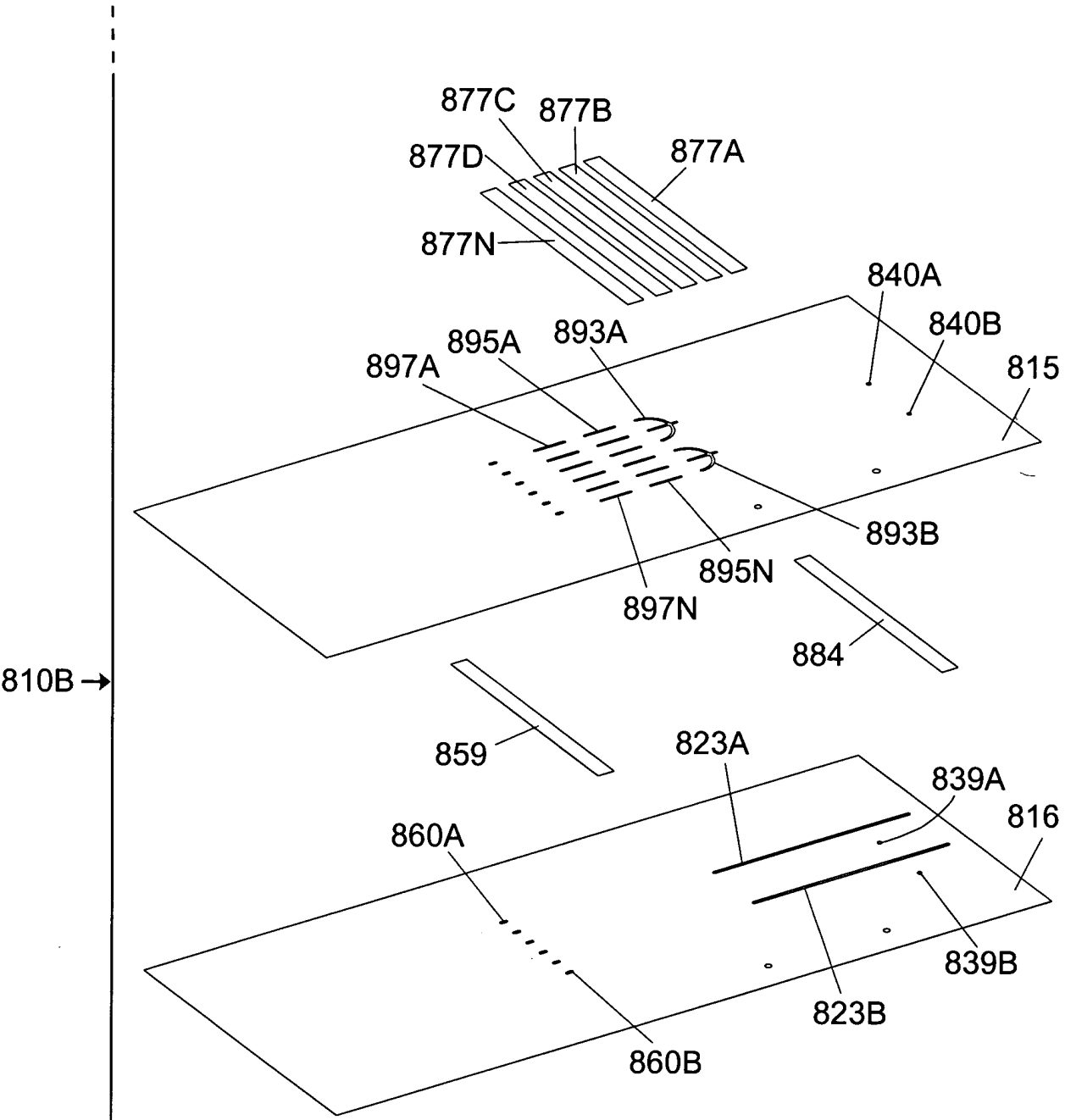


FIG. 18B



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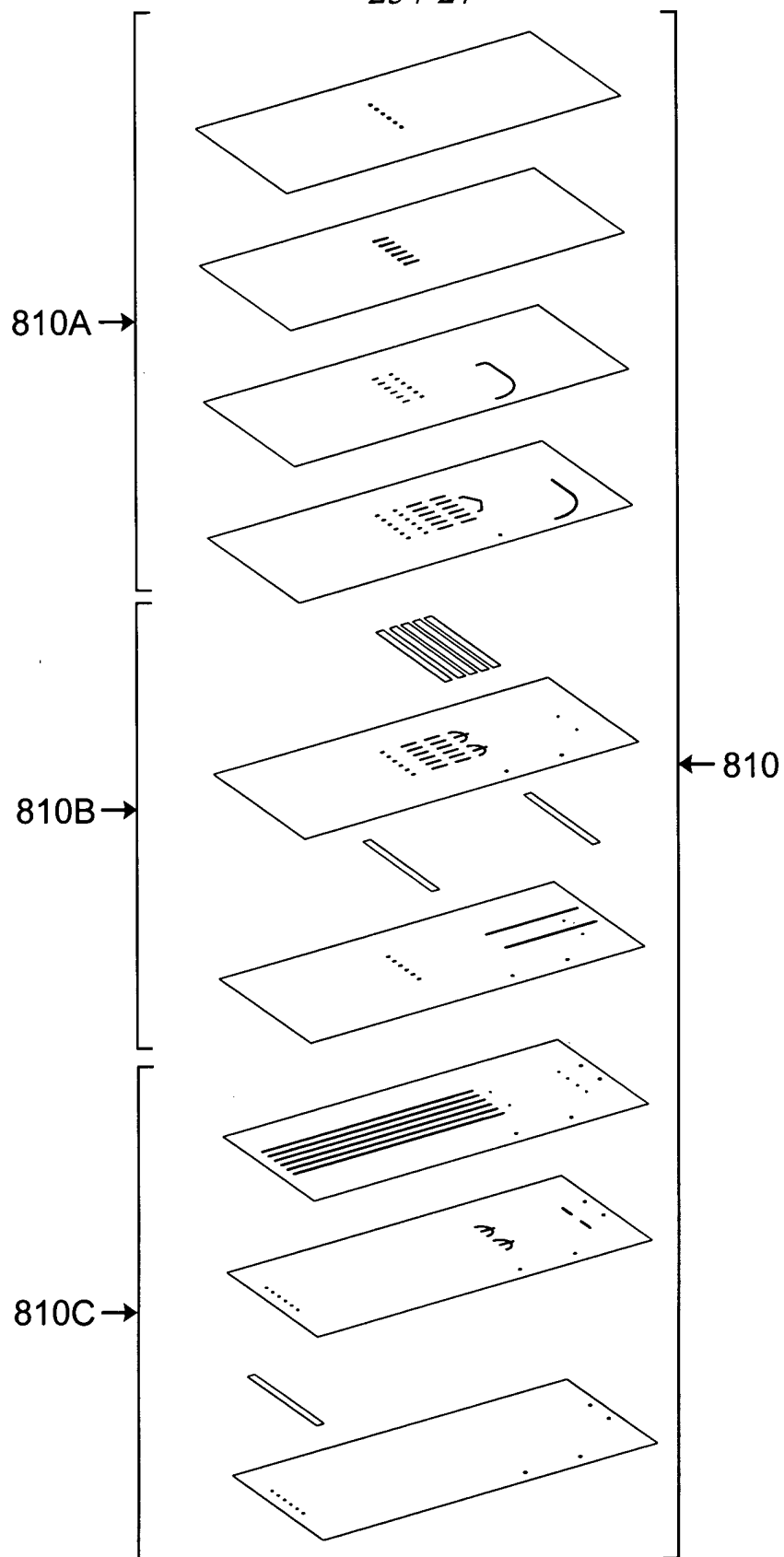


FIG. 18D

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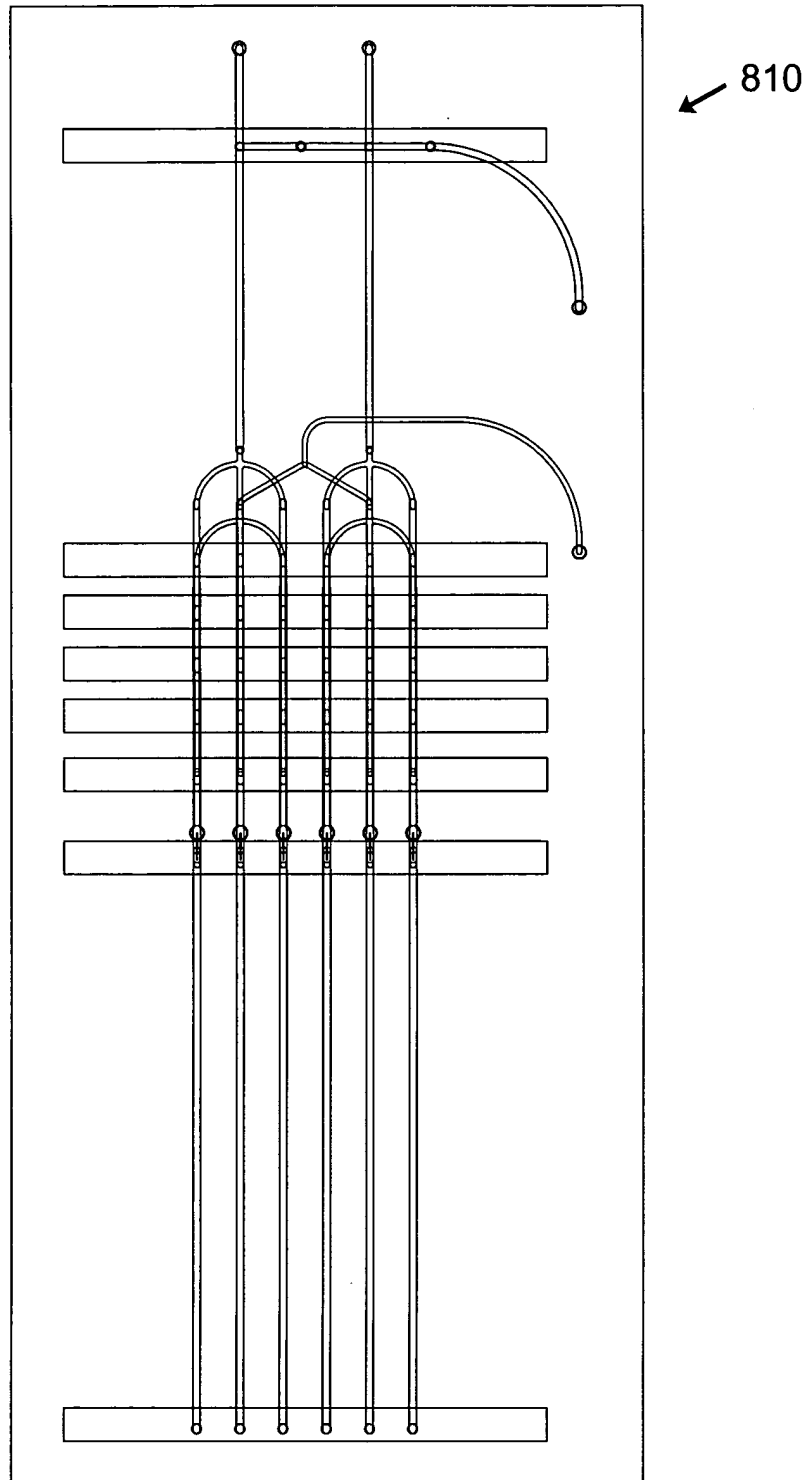


FIG. 18E

+

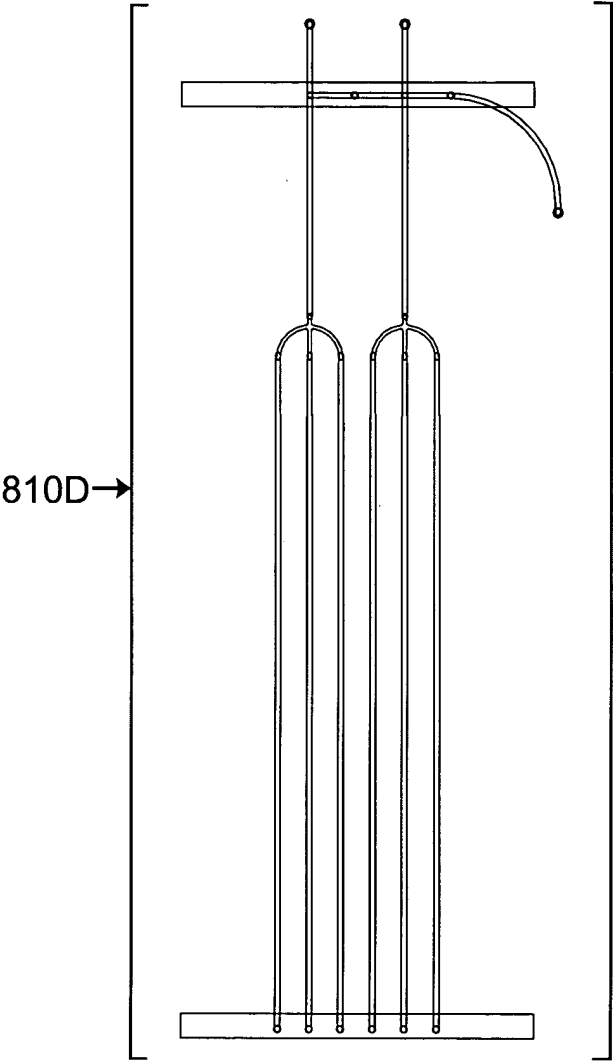


FIG. 18F

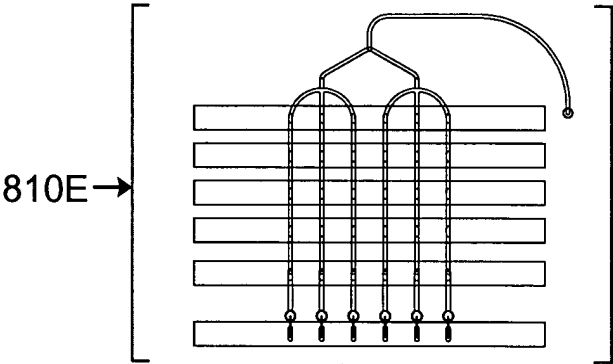


FIG. 18G

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